

VEGFD active protein

VEGFD Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258133

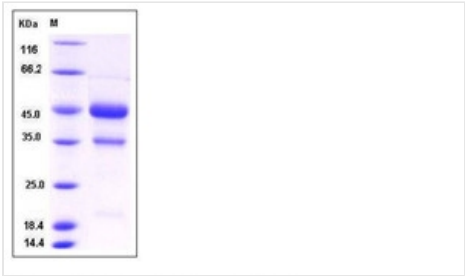
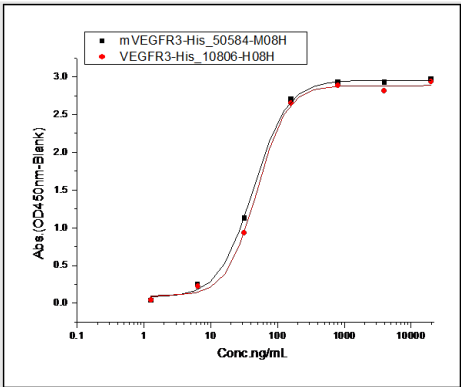
HOST
HEK293 Cells

PRODUCT SYNONYMS

VEGFD; VEGFD Protein; Mouse; Recombinant (hFc Tag); Mouse VEGF-D/VEGFD/FIGF Protein (Fc Tag); AI325264 Protein; VEGF-D Protein; Vegfd Protein; c-fos induced growth factor (vascular endothelial growth factor D); VEGFD active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Phe98-Ser206
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Glu
Tag	N-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mature form of mouse FIGF (P97946)(Phe 98-Ser 206) was fused with the Fc region of human IgG1 at the N-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized human VEGFR3-His at 10ug/mL (100uL/well) can bind mouse Fc-VEGFD. The EC50 of mouse Fc-VEGFD is 49ng/mL. 3. Immobilized mouse VEGFR3-His at 10ug/mL (100uL/well) can bind mouse Fc-VEGFD. The EC50 of mouse Fc-VEGFD is 44ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized human VEGFR3-His at 10 ug/mL (100 ul/well) can bind mouse Fc-VEGFD, The EC50 of mouse Fc-VEGFD is 49 ng/mL.
3. Immobilized mouse VEGFR3-His at 10 ug/mL (100 ul/well) can bind mouse Fc-VEGFD, The EC50 of mouse Fc-VEGFD is 44 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for VEGFD active protein	Background: Vascular endothelial growth factor D (VEGF-D), also known as C-fos induced growth factor (FIGF), belongs to the platelet-derived growth factor/vascular endothelial growth factor (PDGF/VEGF) family. FIGF protein is active in angiogenesis, lymphangiogenesis, and endothelial cell growth. FIGF protein is secreted as a non-covalent homodimer in an antiparallel fashion. Human FIGF protein is expressed in adult lung, heart, muscle, and small intestine, and is most abundantly expressed in fetal lungs and skin. FIGF protein is structurally and functionally similar to VEGF-C. Therefore, FIGF protein binds and activates VEGFR-2 (Flk1) and VEGFR-3 (Flt4) receptors, and may particularly be involved in cancers, such as breast cancer, epithelial ovarian carcinoma and so on.
References	Avantaggiato V, et al. (1998) Embryonic expression pattern of the murine figf gene, a growth factor belonging to platelet-derived growth factor/vascular endothelial growth factor family. Mech Dev. 73(2):221-4.Rocchigiani M, et al. (1998) Human FIGF: cloning, gene structure, and mapping to chromosome Xp22.1 between the PIGA and the GRPR genes. Genomics 47(2):207-16.Karpanen T, et al. (2008) VEGF-D: a modifier of embryonic lymphangiogenesis. Blood. 112(5): 1547-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	819231786
NCBI GeneID	14205
NCBI Accession #	NP_001295418.1
NCBI GenBank Nucleotide #	NM_001308489.1
UniProt Accession #	P97946; A2AIH3
Molecular Weight	40,909 Da
NCBI Official Full Name	vascular endothelial growth factor D isoform VEGF-D326 preproprotein
NCBI Official Synonym Full Names	vascular endothelial growth factor D
NCBI Official Symbol	Vegfd
NCBI Official Synonym Symbols	Figf; VEGF-D; AI325264
NCBI Protein Information	vascular endothelial growth factor D
UniProt Protein Name	Vascular endothelial growth factor D
UniProt Gene Name	Vegfd

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/vegfd/258133>